

SEQUENCE LISTING

<110> Luche, Ralf M.
Wei, Bo

<120> DSP-16 DUAL-SPECIFICITY PHOSPHATASE

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<140> US

<141> 2001-09-25

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<213> Homo sapiens

<400> 2

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 35             40             45
Asn Cys Ser Lys Leu Met Lys Arg Arg Leu Gln Gln Asp Lys Val Leu
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Ile Thr Glu Leu Ile Gln His Ser Ala Lys His Lys Val Asp Ile Asp
 65             70             75             80
Cys Ser Gln Lys Val Val Val Tyr Asp Gln Ser Ser Gln Asp Val Ala
 85             90             95
Ser Leu Ser Ser Asp Cys Phe Leu Thr Val Leu Leu Gly Lys Leu Glu
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Tyr	His	Thr 515	Ser	Phe	Leu	Phe	Gly 520	Leu	Ser	Thr	Ser 525	Gln	Gln	His	Leu
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 Gln Val Tyr Ser Val Arg Arg Arg Gln Lys Pro Ser Asp Arg Ala Asp
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 Ser Arg Arg Ser Trp His Glu Glu Ser Pro Phe Glu Lys Gln Phe Lys
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 <213> Homo sapiens

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 35 40 45
 Leu Pro Asn Leu Phe Glu Asn Ala Gly Glu Phe Lys Tyr Lys Gln Ile
 50 55 60
 Pro Ile Ser Asp His Trp Ser Gln Asn Leu Ser Gln Phe Phe Pro Glu
 65 70 75 80
 Ala Ile Ser Phe Ile Asp Glu Ala Arg Gly Lys Asn Cys Gly Val Leu
 85 90 95
 Val His Cys Leu Ala Gly Ile Ser Arg Ser Val Thr Val Thr Val Ala
 100 105 110
 Tyr Leu Met Gln Lys Leu Asn Leu Ser Met Asn Asp Ala Tyr Asp Ile
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 35 40 45

Leu Pro Asn Ala Phe Glu His Gly Gly Glu Phe Thr Tyr Lys Gln Ile
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 Pro Ile Ser Asp His Trp Ser Gln Asn Leu Ser Gln Phe Phe Pro Glu
 65 70 75 80
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 85 90 95
 Val His Cys Leu Ala Gly Ile Ser Arg Ser Val Thr Val Thr Val Ala
 100 105 110
 Tyr Leu Met Gln Lys Met Asn Leu Ser Leu Asn Asp Ala Tyr Asp Phe
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 35 40 45
 Leu Pro Asn Phe Phe Glu Lys Asn Gly Asp Phe His Tyr Lys Gln Ile
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 Pro Ile Ser Asp His Trp Ser Gln Asn Leu Ser Arg Phe Phe Pro Glu
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 100 105 110
 Tyr Leu Met Gln Lys Leu His Leu Ser Leu Asn Asp Ala Tyr Asp Leu
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 35 40 45
 Cys Pro Asn His Phe Glu Gly Leu Phe His Tyr Lys Ser Ile Pro Val
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 Glu Asp Asn Gln Met Val Glu Ile Ser Ala Trp Phe Gln Glu Ala Ile
 65 70 75 80
 Ser Phe Ile Asp Ser Val Lys Asn Ser Gly Gly Arg Val Leu Val His
 85 90 95
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 100 105 110
 Ile Gln Ser His Arg Val Arg Leu Asp Glu Ala Phe Asp Phe Val Lys
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 35 40 45
 Cys Pro Asn His Phe Glu Gly His Tyr Gln Tyr Lys Ser Ile Pro Val
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 Glu Asp Asn His Lys Ala Asp Ile Ser Ser Trp Phe Asn Glu Ala Ile
 65 70 75 80
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 85 90 95
 Cys Gln Ala Gly Ile Ser Arg Ser Ala Thr Ile Cys Leu Ala Tyr Leu
 100 105 110
 Met Arg Thr Asn Arg Val Lys Leu Asp Glu Ala Phe Glu Phe Val Lys
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 35 40 45
 Cys Pro Asn His Phe Glu Gly His Tyr Gln Tyr Lys Cys Ile Pro Val
 50 55 60
 Glu Asp Asn His Lys Ala Asp Ile Ser Ser Trp Phe Met Glu Ala Ile
 65 70 75 80
 Glu Tyr Ile Asp Ala Val Lys Asp Cys Arg Gly Arg Val Leu Val His
 85 90 95
 Cys Gln Ala Gly Ile Ser Arg Ser Ala Thr Ile Cys Leu Ala Tyr Leu
 100 105 110
 Met Met Lys Lys Arg Val Arg Leu Glu Glu Ala Phe Glu Phe Val Lys
 115 120 125
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 145 150

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 35 40 45
 Thr Ser Glu Ala Cys Met Thr His Leu His Tyr Lys Trp Ile Pro Val
 50 55 60
 Glu Asp Ser His Thr Ala Asp Ile Ser Ser His Phe Gln Glu Ala Ile
 65 70 75 80
 Asp Phe Ile Asp Cys Val Arg Glu Lys Gly Gly Lys Val Leu Val His
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 Cys Glu Ala Gly Ile Ser Arg Ser Pro Thr Ile Cys Met Ala Tyr Leu
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 Met Lys Thr Lys Gln Phe Arg Leu Lys Glu Ala Phe Asp Tyr Ile Lys
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          35          40          45
Arg Ser Phe Met His Val Asn Thr Asn Ala Asn Phe Tyr Lys Asp Ser
          50          55          60
Gly Ile Thr Tyr Leu Gly Ile Lys Ala Asn Asp Thr Gln Glu Phe Asn
          65          70          75          80
Leu Ser Ala Tyr Phe Glu Arg Ala Ala Asp Phe Ile Asp Gln Ala Leu
          85          90          95
Ala Gln Lys Asn Gly Arg Val Leu Val His Cys Arg Glu Gly Tyr Ser
          100          105          110
Arg Ser Pro Thr Leu Val Ile Ala Tyr Leu Met Met Arg Gln Lys Met
          115          120          125
Asp Val Lys Ser Ala Leu Ser Tyr Val Arg Gln Asn Arg Glu Ile Gly
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<210> 13

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<212> PRT

<213> Homo sapiens

<400> 13

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Asp Met Ser Leu Asp Glu Ala Tyr Arg
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<212> DNA

<213> Artificial Sequence

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<223> PCR primer

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<223> PCR primer

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30

<210> 16

<211> 10

<212> PRT

<213> Homo sapiens

<400> 16

Val His Cys Leu Ala Gly Ile Ser Arg Ser
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<210> 17

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Conserved homology sequence of eight human DSP
amino acid sequences.

<400> 17

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<210> 18

<211> 32

<212> DNA

<213> Artificial Sequence

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<223> RACE primer

<400> 18

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<210> 19

<211> 35

<212> DNA

<213> Artificial Sequence

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<223> RACE primer

<400> 19

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Lys Pro Asp Phe Ile Pro Glu Ser His Phe Leu Arg Val Pro Val Asn
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65          70          75          80
Phe Ile Glu Lys Ala Lys Ala Ser Asn Gly Cys Val Leu Val His Cys
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Asp Tyr Glu Lys Lys Ile Lys Asn Gln Thr Gly Ala Ser Gly Pro Lys
145          150          155          160
Ser Lys Leu Lys Leu Leu His Leu Glu Lys Pro Asn Glu Pro Val Pro
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Pro Ala Ser Val Pro Ser Val Pro Ser Val Gln Pro Ser Leu Leu Glu
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225          230          235          240
Arg Leu Glu Asp Ser Asn Lys Leu Lys Arg Ser Phe Ser Leu Asp Ile
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Lys Ser Val Ser Tyr Ser Ala Ser Met Ala Ala Ser Leu His Gly Phe
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T03451 "CEH360"

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 Ser Pro Leu His Arg Ser Gly Ser Val Glu Asp Asn Tyr His Thr Ser
 355 360 365
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 Gly Leu Gly Leu Lys Gly Trp His Ser Asp Ile Leu Ala Pro Gln Thr
 385 390 395 400
 Ser Thr Pro Ser Leu Thr Ser Ser Trp Tyr Phe Ala Thr Glu Ser Ser
 405 410 415
 His Phe Tyr Ser Ala Ser Ala Ile Tyr Gly Gly Ser Ala Ser Tyr Ser
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 Val Arg Arg Arg Gln Lys Pro Ser Asp Arg Ala Asp Ser Arg Arg Ser
 450 455 460
 Trp His Glu Glu Ser Pro Phe Glu Lys Gln Phe Lys Arg Arg Ser Cys
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 Gln Met Glu Phe Gly Glu Ser Ile Met Ser Glu Asn Arg Ser Arg Glu
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<213> Artificial Sequence

<220>

<223> Autophosphorylation site from EGF receptor.

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Asp Ala Asp Glu Tyr Leu

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